

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/386,591DATE: 09/15/1999  
TIME: 12:41:20

INPUT SET: S33339.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

ENTERED

1  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: Needleman, Philip  
6 Glenn, Kevin  
7  
8 (ii) TITLE OF INVENTION: An Immunological Process and Constructs  
9 for Increasing the HDL Cholesterol Concentration by DNA  
10 Vaccination  
11  
12 (iii) NUMBER OF SEQUENCES: 52  
13  
14 (iv) CORRESPONDENCE ADDRESS:  
15 (A) ADDRESSEE: Welsh & Katz, Ltd.  
16 (B) STREET: 120 South Riverside Plaza, 22nd Floor  
17 (C) CITY: Chicago  
18 (D) STATE: IL  
19 (E) COUNTRY: USA  
20 (F) ZIP: 60606  
21  
22 (v) COMPUTER READABLE FORM:  
23 (A) MEDIUM TYPE: Floppy disk  
24 (B) COMPUTER: IBM PC compatible  
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30  
27  
28 (vi) CURRENT APPLICATION DATA:  
29 (A) APPLICATION NUMBER:  
30 (B) FILING DATE:  
31 (C) CLASSIFICATION:  
32  
33 (viii) ATTORNEY/AGENT INFORMATION:  
34 (A) NAME: Gamson Ph.D., Edward P.  
35 (B) REGISTRATION NUMBER: 29,381  
36 (C) REFERENCE/DOCKET NUMBER: MON-103.0 6221/69666  
37  
38 (ix) TELECOMMUNICATION INFORMATION:  
39 (A) TELEPHONE: (312)655-1500  
40 (B) TELEFAX: (312)655-1501  
41  
42  
43 (2) INFORMATION FOR SEQ ID NO:1:  
44  
45 (i) SEQUENCE CHARACTERISTICS:  
46 (A) LENGTH: 1431 base pairs

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47 (B) TYPE: nucleic acid  
48 (C) STRANDEDNESS: single  
49 (D) TOPOLOGY: linear  
50  
51 (ii) MOLECULE TYPE: DNA (genomic)  
52  
53  
54 (viii) POSITION IN GENOME:  
55 (C) UNITS: bp  
56  
57  
58 (x) PUBLICATION INFORMATION:  
59 (A) AUTHORS: Drayna, Dennis  
60 Jarnagin, Alisha Stephens  
61 McLean, John  
62 Henzel, William  
63 Kohr, William  
64 Fielding, Christopher  
65 Lawn, Richard  
66 (B) TITLE: Cloning and sequencing of human cholesteryl  
67 ester transfer protein cDNA  
68 (C) JOURNAL: Nature  
69 (D) VOLUME: 327  
70 (F) PAGES: 632-634  
71 (G) DATE: June 18-1987  
72  
73 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
74  
75 TGCTCCAAAG GCACCTCGCA CGAGGCAGGC ATCGTGTGCC GCATCACCAA GCCTGCCCTC 60  
76  
77 CTGGTGTGTA ACCACGAGAC TGCCAAGGTC ATCCAGACCG CCTTCCAGCG AGCCAGCTAC 120  
78  
79 CCAGATATCA CGGGCGAGAA GGCCATGATG CTCCTTGGCC AAGTCAAGTA TGGGTTGCAC 180  
80  
81 AACATCCAGA TCAGCCACTT GTCCATCGCC AGCAGCCAGG TGGAGCTGGT GGAAGCCAAG 240  
82  
83 TCCATTGATG TCTCCATTCA GAACGTGTCT GTGGTCTTCA AGGGGACCCT GAAGTATGGC 300  
84  
85 TACACCACTG CCTGGTGGCT GGGTATTGAT CAGTCCATTG ACTTCGAGAT CGACTCTGCC 360  
86  
87 ATTGACCTCC AGATCAACAC ACAGCTGACC TGTGACTCTG GTAGAGTGCG GACCGATGCC 420  
88  
89 CCTGACTGCT ACCTGTCTTT CCATAAGCTG CTCCTGCATC TCCAAGGGGA GCGAGAGCCT 480  
90  
91 GGGTGGATCA AGCAGCTGTT CACAAATTTT ATCTCCTTCA CCCTGAAGCT GGTCTTGAAG 540  
92  
93 GGACAGATCT GCAAAGAGAT CAACGTCATC TCTAACATCA TGGCCGATTT TGTCCAGACA 600  
94  
95 AGGGCTGCCA GCATCCTTTC AGATGGAGAC ATTGGGGTGG ACATTTCCCT GACAGGTGAT 660  
96  
97 CCCGTCATCA CAGCCTCCTA CCTGGAGTCC CATCACAAGG GTCATTTTCAT CTACAAGAAT 720  
98  
99 GTCTCAGAGG ACCTCCCCCT CCCACCTTC TCGCCACAC TGCTGGGGGA CTCCCGCATG 780

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100  
101 CTGTACTTCT GGTTCCTCTGA GCGAGTCTTC CACTCGCTGG CCAAGGTAGC TTTCCAGGAT 840  
102  
103 GGCCGCCTCA TGCTCAGCCT GATGGGAGAC GAGTTCAAGG CAGTGCTGGA GACCTGGGGC 900  
104  
105 TTCAACACCA ACCAGGAAAT CTTCCAAGAG GTTGTGCGCG GCTTCCCCAG CCAGGCCCAA 960  
106  
107 GTCACCGTCC ACTGCCTCAA GATGCCCAAG ATCTCCTGCC AAAACAAGGG AGTCGTGGTC 1020  
108  
109 AATTCTTCAG TGATGGTGAA ATTCTCTTTT CCACGCCAG ACCAGCAACA TTCTGTAGCT 1080  
110  
111 TACACATTTG AAGAGGATAT CGTGACTACC GTCCAGGCCT CCTATTCTAA GAAAAAGCTC 1140  
112  
113 TTCTTAAGCC TCTTGGATTT CCAGATTACA CCAAAGACTG TTTCCAACTT GACTGAGAGC 1200  
114  
115 AGCTCCGAGT CCATCCAGAG CTTCTGCGAG TCAATGATCA CCGCTGTGGG CATCCCTGAG 1260  
116  
117 GTCATGTCTC GGCTCGAGGT AGTGTTTACA GCCCTCATGA ACAGCAAAGG CGTGAGCCTC 1320  
118  
119 TTCGACATCA TCAACCCTGA GATTATCACT CGAGATGGCT TCCTGCTGCT GCAGATGGAC 1380  
120  
121 TTTGGCTTCC CTGAGCACCT GCTGGTGGAT TTCCTCCAGA GCTTGAGCTA G 1431  
122

## (2) INFORMATION FOR SEQ ID NO:2:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: peptide

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Glu Ile Phe Gln Glu Leu Ser Arg Gly Leu Pro Thr Gly Gln Ala Gln  
1 5 10 15  
Val Ala Val His  
20

## (2) INFORMATION FOR SEQ ID NO:3:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: peptide

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154

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156

157 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

158

159 Val Ala Val Thr Phe Arg Phe Pro Arg Pro Asp Gly Arg Glu Ala Val

160 1 5 10 15

161

162 Ala Tyr Arg Phe

163 20

164

165 (2) INFORMATION FOR SEQ ID NO:4:

166

167 (i) SEQUENCE CHARACTERISTICS:

168 (A) LENGTH: 22 amino acids

169 (B) TYPE: amino acid

170 (C) STRANDEDNESS: single

171 (D) TOPOLOGY: linear

172

173 (ii) MOLECULE TYPE: peptide

174

175

176

177

178 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

179

180 Leu Leu Leu Gln Met Asp Phe Gly Phe Pro Lys His Leu Leu Val Asp

181 1 5 10 15

182

183 Phe Leu Gln Ser Leu Ser

184 20

185

186 (2) INFORMATION FOR SEQ ID NO:5:

187

188 (i) SEQUENCE CHARACTERISTICS:

189 (A) LENGTH: 20 amino acids

190 (B) TYPE: amino acid

191 (C) STRANDEDNESS: single

192 (D) TOPOLOGY: linear

193

194 (ii) MOLECULE TYPE: peptide

195

196

197

198

199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

200

201 Thr Thr Val Gln Ala Ser Tyr Ser Gln Lys Lys Leu Phe Leu His Leu

202 1 5 10 15

203

204 Leu Asp Phe Gln

205 20

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206  
207 (2) INFORMATION FOR SEQ ID NO:6:  
208  
209 (i) SEQUENCE CHARACTERISTICS:  
210 (A) LENGTH: 20 amino acids  
211 (B) TYPE: amino acid  
212 (C) STRANDEDNESS: single  
213 (D) TOPOLOGY: linear  
214  
215 (ii) MOLECULE TYPE: peptide  
216  
217  
218  
219  
220 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
221  
222 Leu Leu Leu His Leu Gln Gly Glu Arg Glu Pro Gly Trp Leu Lys Gln  
223 1 5 10 15  
224  
225 Leu Phe Thr Asn  
226 20  
227  
228 (2) INFORMATION FOR SEQ ID NO:7:  
229  
230 (i) SEQUENCE CHARACTERISTICS:  
231 (A) LENGTH: 20 amino acids  
232 (B) TYPE: amino acid  
233 (C) STRANDEDNESS: single  
234 (D) TOPOLOGY: linear  
235  
236 (ii) MOLECULE TYPE: peptide  
237  
238  
239  
240  
241 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
242  
243 Asp Val Ser Gly Glu Arg Ala Val Met Leu Leu Gly Arg Val Lys Tyr  
244 1 5 10 15  
245  
246 Gly Leu His Asn  
247 20  
248  
249 (2) INFORMATION FOR SEQ ID NO:8:  
250  
251 (i) SEQUENCE CHARACTERISTICS:  
252 (A) LENGTH: 20 amino acids  
253 (B) TYPE: amino acid  
254 (C) STRANDEDNESS: single  
255 (D) TOPOLOGY: linear  
256  
257 (ii) MOLECULE TYPE: peptide  
258

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**SEQUENCE VERIFICATION REPORT**  
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Error

Original Text